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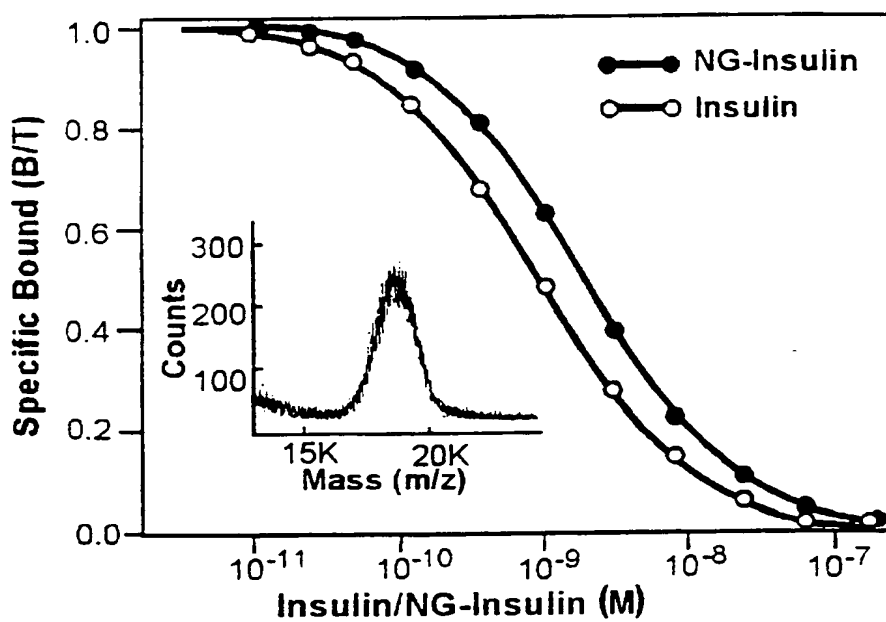
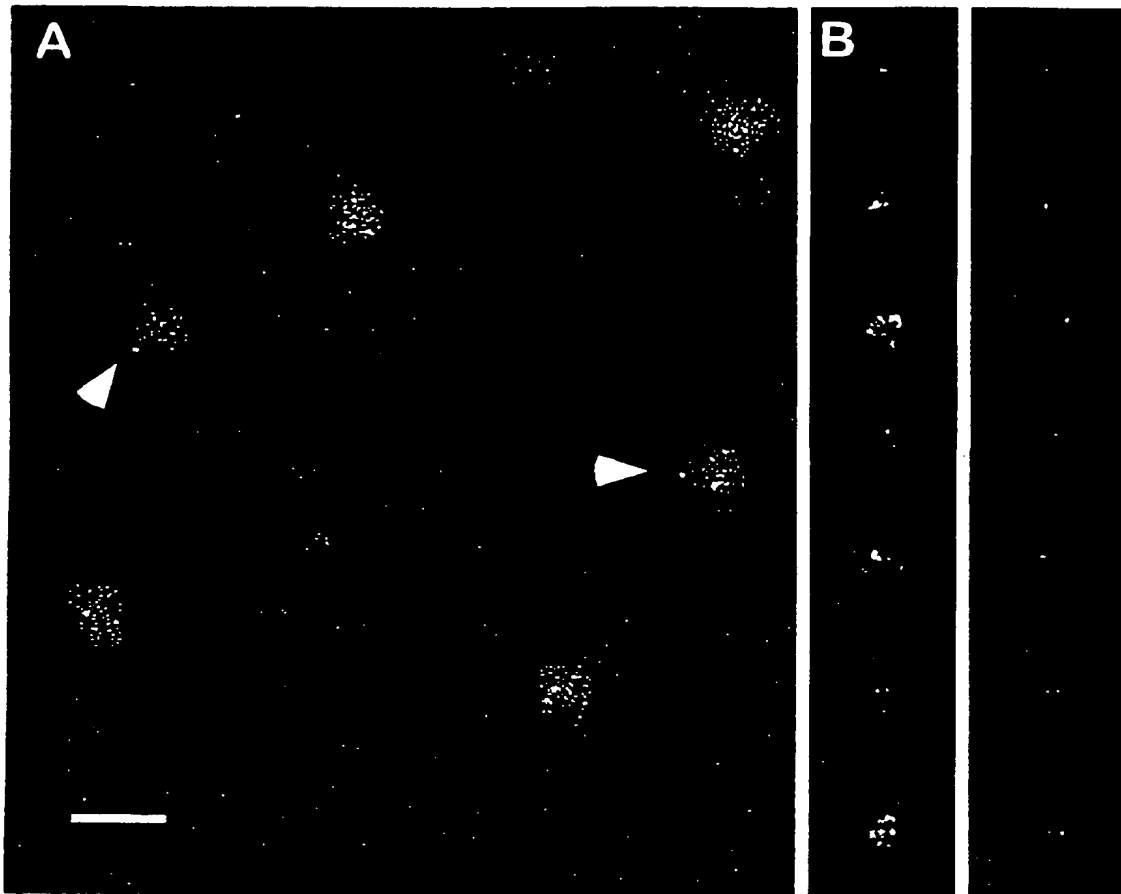
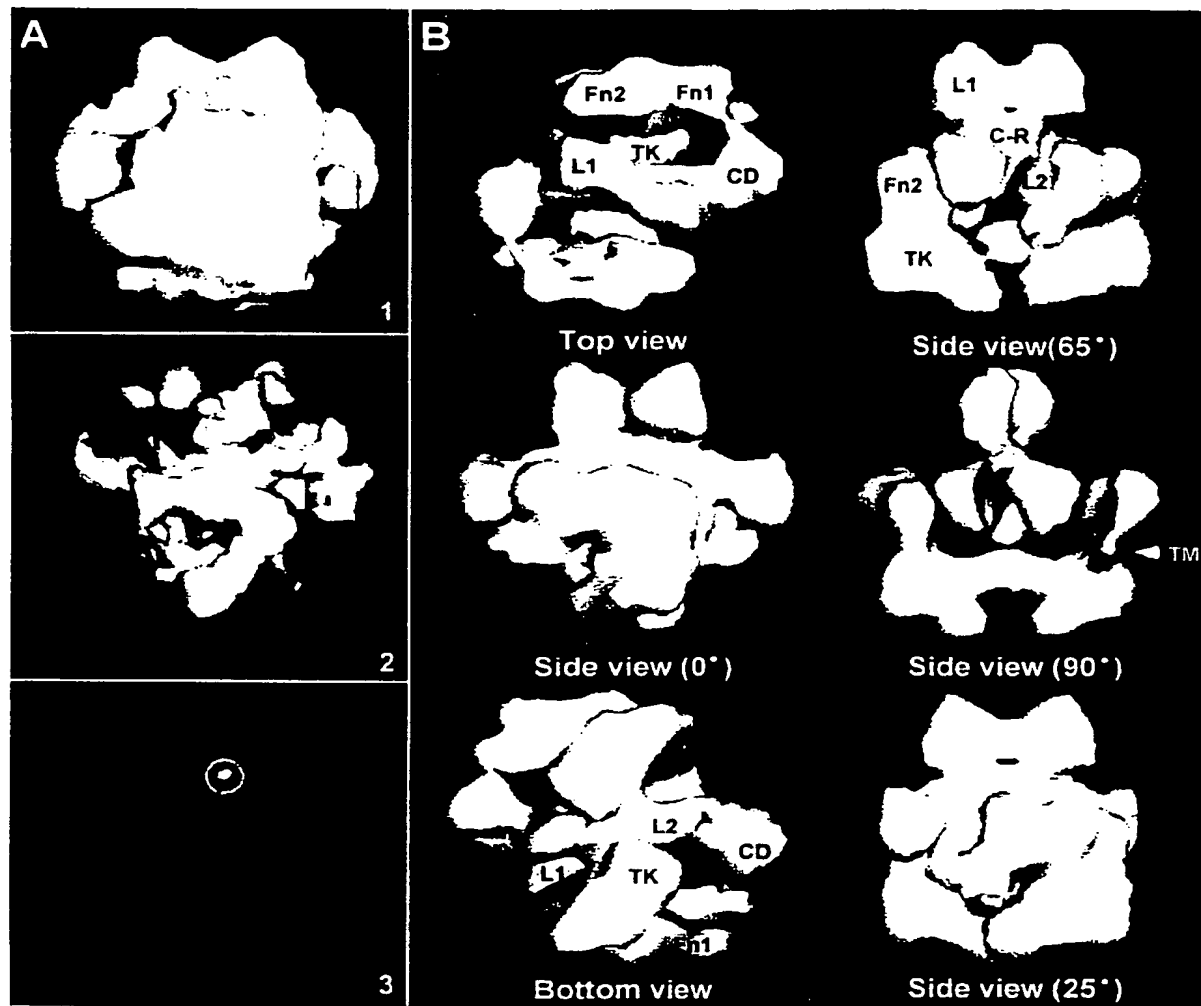


Fig. 1.



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Fig. 2.



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Fig. 3.

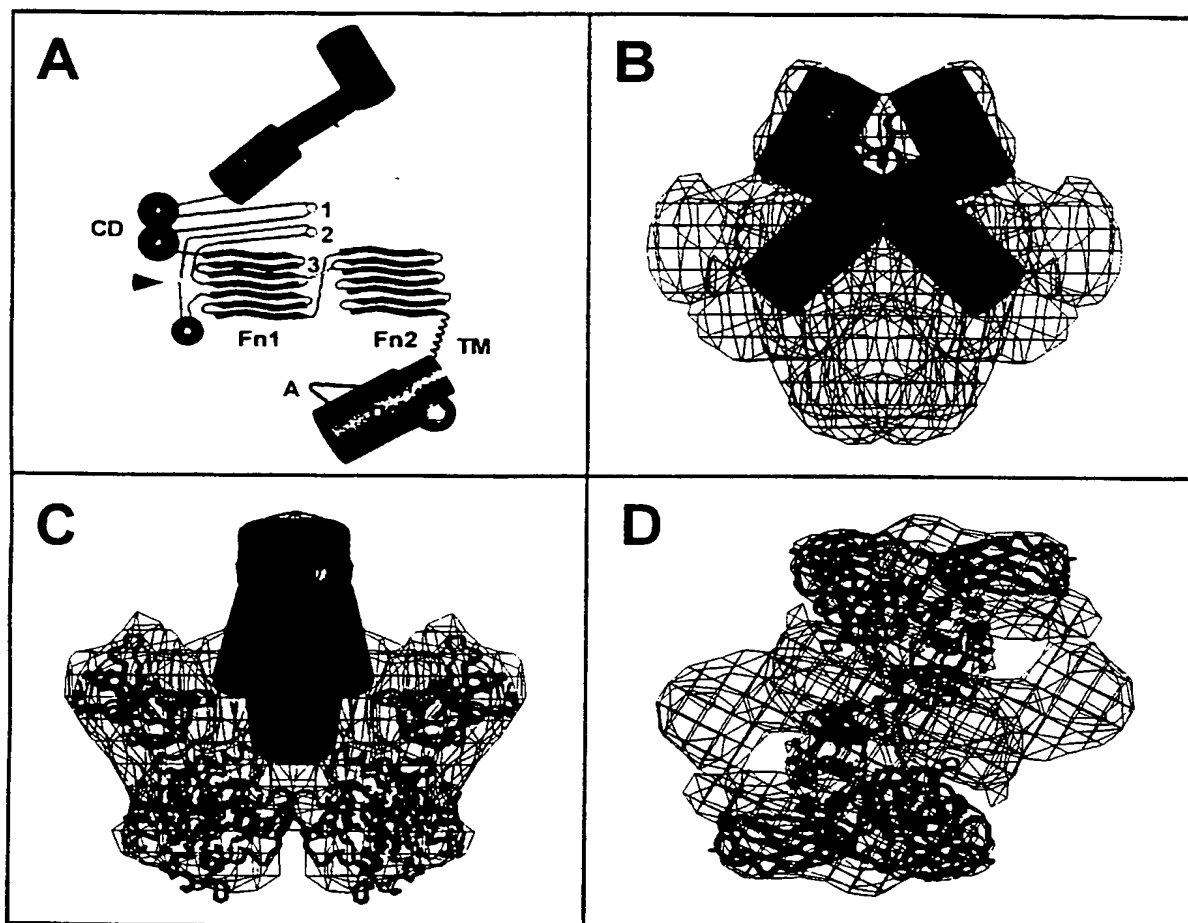


Fig. 4.

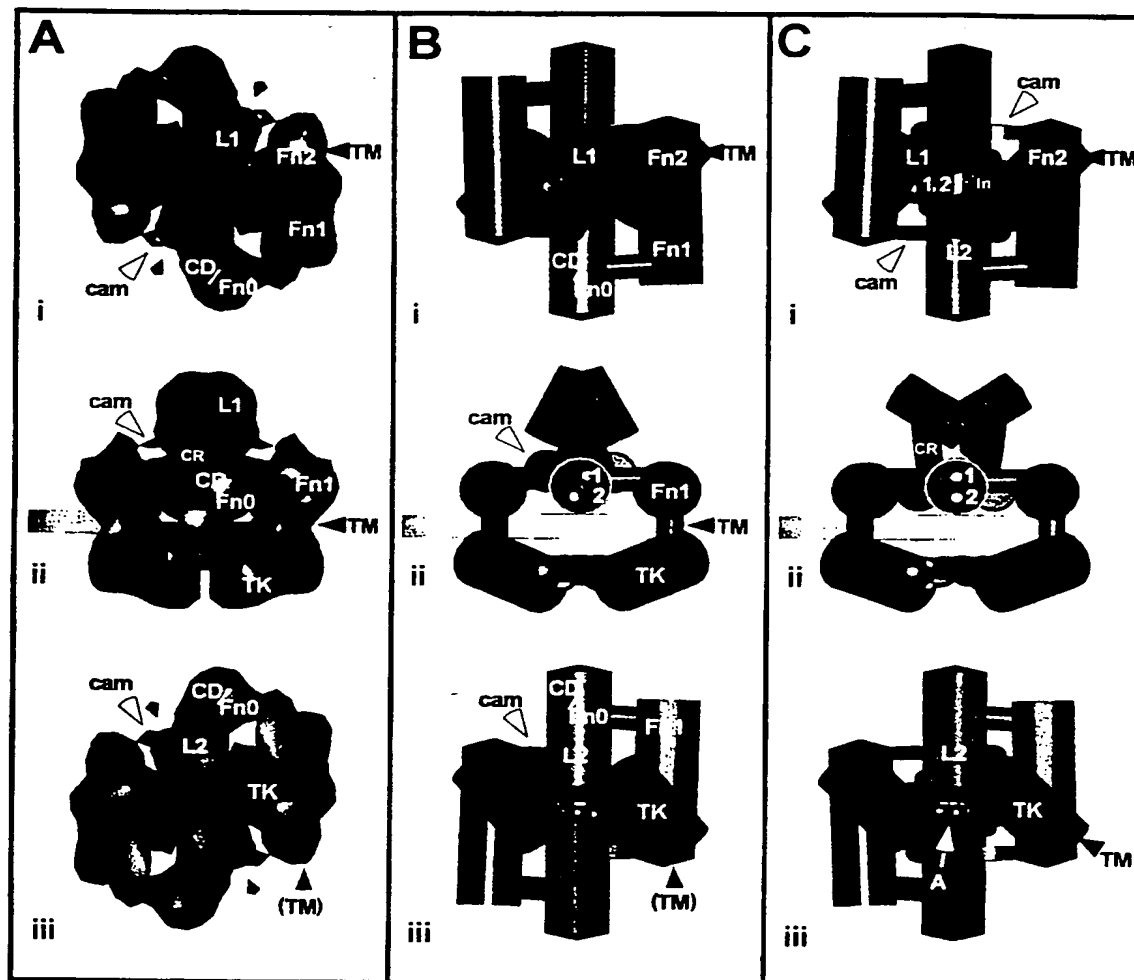


Fig. 5.



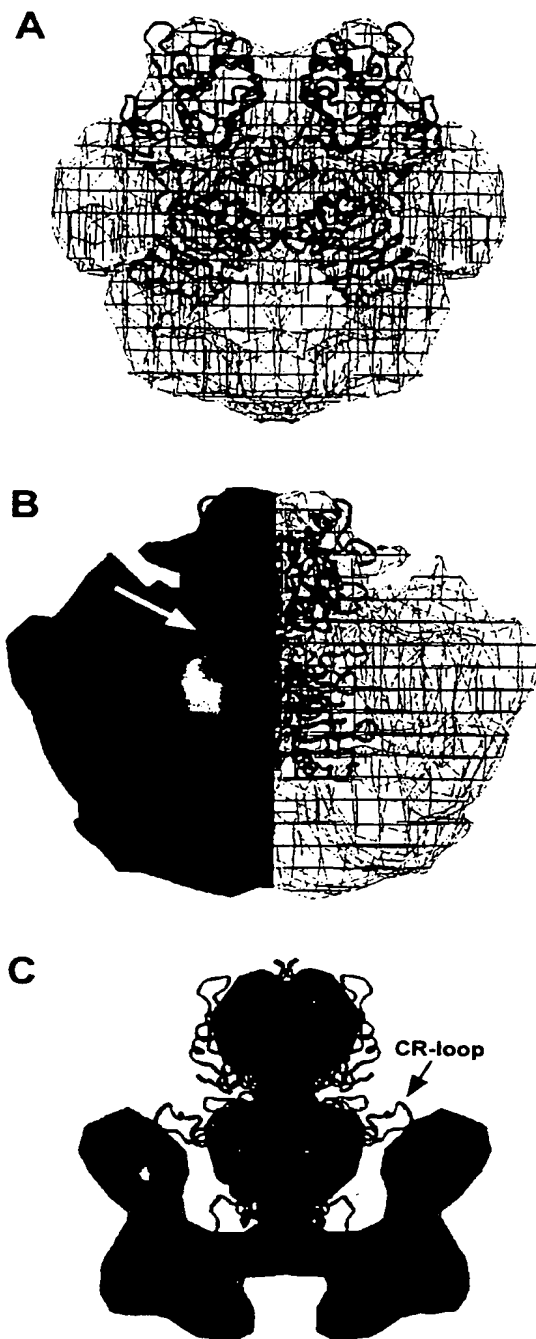


Fig. 7.

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Fig. 8.



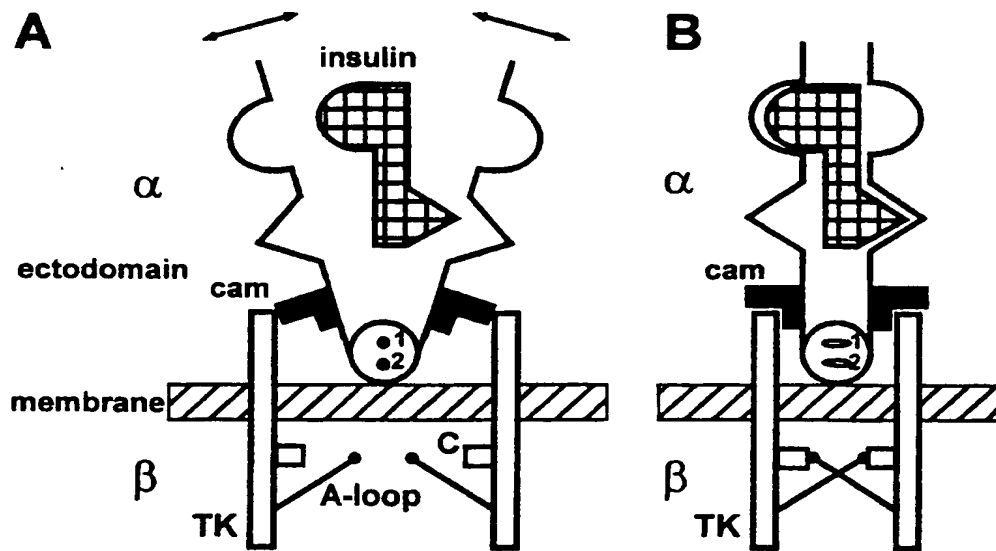
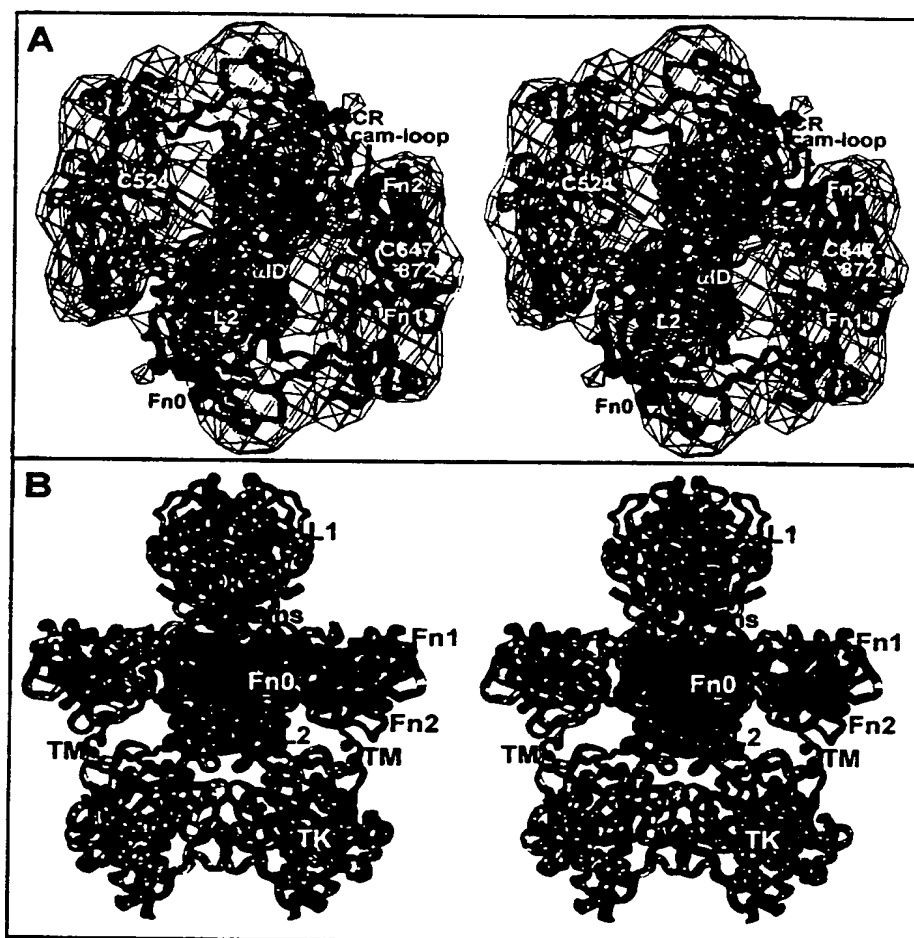


Fig. 9.



**Fig.10.**



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## Human Insulin Receptor

## Leader Sequence

MGTGGRRGAA AAPLLVAVAA LLLGAAG

## Alpha subunit

ELYPGEVCPG	MDIRNNLTRL	HELENCVIE	GHLQILLMFK	TRPEDFRDLS	50
FPKLIMITDY	LLLFVYGLE	SLKDLFPNLT	VIRGSRLFFN	YALVIFEMVH	100
LKELGLYNLM	NITRGSVRIE	KNNELCYLAT	IDWSRILDSV	EDNHIVLNKD	150
DNEECGDICP	GTAKGKTNCP	ATVINGQFVE	RCWTHSHCOK	VCPTICKSHG	200
CTAEGLCCHS	ECLGNCSQPD	DPTKCVACRN	FYLDGRCVET	CPPPPYHFQD	250
WRCVNFSPCQ	DLHHKCKNSR	RQGCHQYVIH	NNKCIPECPS	GTTMNSNNLL	300
CTPCLGPCPK	VCHLEGEKT	IDSVTS AQEL	RGCTVINGSL	IINIRGGNNL	350
AAELEANLGL	IEEISGYLKI	RRSYALVSL	FFRKLRLIRG	ETLEIGNYSF	400
YALDNQNLRO	LWDWSKHNL	TTQGLFFHY	NPKLCLSEIH	KMEEVSGTKG	450
RQERNDIALK	TNGDKASCEN	ELLKFSYIRT	SFDKILLRWE	PYWPPDFRDL	500
LGFMIFYKEA	PYQNVTEFDG	QDACGSNSWT	VVDIDPPLRS	NDPKSQNHPG	550
WLMRGLKPWT	QYAI FVKTLV	TFSDE RRTYG	AKSDIIYVQT	DATNPSVPLD	600
PISVSNSSSQ	IILKWKPPSD	PNGNITHYLV	FWEROAEDSE	LFELDYCLKG	650
LKLPSRTWSP	PFSEDSQKH	NQSEYEDSAG	ECCSCPKTDS	QILKELEESS	700
FRKTFEDYLH	NVVFVPRPS				719

## Cutting site

R KRR

723

## Beta subunit

	SLGDVGN	VTVAVPTVAA	FPNTSSTSV	750
TSPEEHRPFE	KVVNKESLVI	SGLRHFTGYR	IELQACNODT	800
VSARTMPEAK	ADDIVGFVTH	EIFENNVVHL	MWQEPKEPNG	850
RYGDEELHLC	VSRKHFALE	GCRLRGLSPG	NYSVRIRATS	900
TYFYVTDYLD	VPSNIAKIII	GPLIFVFLFS	VVIGSIYFL	950
PLYASSNPEY	LSASDVFP	CS VYVPDEWEVS	REKITLLREL	1000
GNARDIIKGE	AETRVAVKTV	NESASLRERI	EFLNEASVMK	1050
LGVVSKGOPT	LVMELMAG	DLKSYLRSR	PEAENNPGR	1100
AAEIADGMAY	LNAKKFVHRD	LAARNCMVAH	DFTVKIGDFG	1150
YRGGGKGLLP	VRWMAPESLK	DGVFTTSSDM	WSFGVVLWEI	1200
LSNEQVLKFV	MDGGYLDQPD	NCPERVTDLM	RCWQFNPKM	1250
LKDDLPSFP	EVSFFHSEEN	KAPESEEELE	MFEDMENVPL	1300
AGGRDGGSSL	GFKRSYEEHI	PYTHMNGGKK	NGRIITLPRS	1343

Fig. 12.

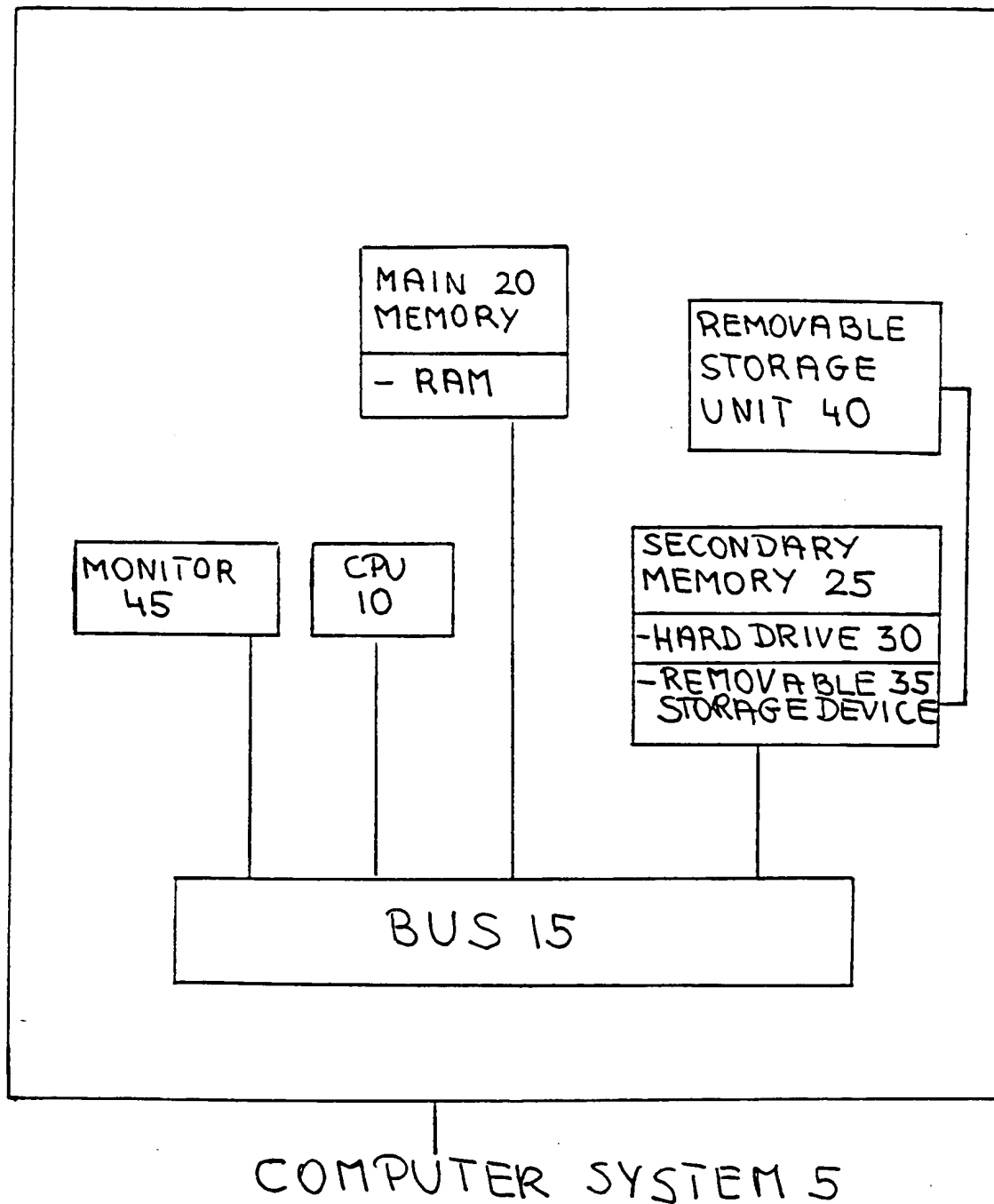


Fig. 13.